LineUp With Math^{TM} **Alignment** **To the Massachusetts Mathematics Curriculum Framework** **Grade-Level Standards, November 2000**	
Number Sense and Operations Strand	
Students engage in problem solving, communicating, reasoning, connecting, and representing as they:	
Grade-Level Standard	*LineUp With Math*^{TM} **Activities**
8.N.3 Use ratios and proportions in the solution of problems in particular, problems involving unit rates, scale factors, and rates of change.	--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

Measurement Strand	
Students engage in problem solving, communicating, reasoning, connecting, and representing as they:	
Grade-Level Standard	*LineUp With Math*^{TM} **Activities**
8.M.1 Select, convert (within the same system of measurement), and use appropriate units of measurement or scale.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
8.M.5 Use models, graphs, and formulas to solve simple problems involving rates, e.g., velocity and density.	--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes. --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.